

- 34 -

ABSTRACT OF THE DISCLOSURE

A method of treating cancer in a human uses x-rays to disrupt a linkage in a complex of a chemotherapeutic agent and a carrier compound comprising a pre-selected element. The complex is administered to the human and then a localized region of cells which contains the cancerous cells is irradiated with line emission x-rays of an energy selected to cause emission of Auger electrons from the pre-selected element of the carrier compound to disrupt the linkage and release the chemotherapeutic agent near the cancer cells. A kit useful for the treatment comprises an x-ray tube capable of emitting monochromatic line emission x-rays and the complex compound. A transfer compound useful in the method comprises a chemotherapeutic agent linked to a carrier compound.